

Applicant: Pekka Koivukunnas et al.
PCT App. No.: PCT/FI00/00690

7. A method for surface treatment of a paper and/or board web in a paper or board machine including a yankee cylinder followed by a calendering unit, wherein the web is glazed and dried first by means of the yankee cylinder, after which the web is immediately calendered by means of a shoe or extended-nip calendering unit.

8. The method of claim 7 wherein when it is intended to achieve a given paper or board quality, the difference between the running speed used and the maximum running speed dependent on the evaporation capacity of the yankee cylinder is compensated for by means of calendering, the calendering after the yankee cylinder enabling the running speed of the yankee cylinder to be increased without the quality in the form of the gloss and smoothness of the paper or board suffering.

9. The method of claim 7 wherein a surface of the web glazed by the yankee cylinder is glazed in the calendering unit.

10. An arrangement for surface treatment of paper and/or board in a paper or board machine including a yankee cylinder followed by a calendering unit wherein the arrangement is formed of a combination in which there is disposed in the machine direction first a yankee cylinder and then a calendering unit, which is formed by a shoe or extended-nip calendering unit.

11. The arrangement of claim 10, wherein, when it is intended to achieve a given paper or board quality, the difference between the running speed used and the maximum running speed dependent on the evaporation capacity of the yankee cylinder is compensated for by the calendering unit, wherein the calendering unit placed after the yankee cylinder enables the running speed to be increased without the quality of the paper or board suffering in the form of reduced gloss and smoothness of the paper or board.

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12. The arrangement of claim 10 wherein the calendering unit glazes a surface of the web glazed by the yankee cylinder.

13. An arrangement for surface treatment of a paper or board web in a paper or board machine comprising:

A. a yankee cylinder; and
an extended nip calendering unit positioned downstream of the yankee cylinder,
wherein the web extends from the yankee cylinder to the extended nip
calendering unit.

14. A method for surface treatment of a paper and/or board web in a paper or board machine comprising the steps of:

running a yankee cylinder at a first running speed which is the maximum speed to obtain a given quality of web gloss and smoothness;
increasing the running speed of the yankee cylinder beyond the first running speed to produce a web having a quality of web gloss and smoothness which is below the given quality; and
immediately calendering the web which exits the yankee cylinder through a shoe or extended-nip calendering unit to impart the given quality of web gloss and smoothness to the web.

REMARKS

Claims 7–14 remain pending in the application.

Applicant believes that no new matter has been added by these amendments and